NOV 06 1990

CERRO WIRE + CABLE COMPANY

NYD092363431

PA Scoresheets

5gw = 14.16 5sw = 0 5a = 05M = 8.18



NOV 06 1990

	CERCLIS IDENTIFICATION NUMBER
STATE	SITE NUMBER NYD09 2363431

					10012363431
	SITE LO	CATION		 	
SITE NAME: Legal, common or descriptive name of site					
Cer	rro Wire +	Cable	Com	pany.	•
STREET ADDRESS; ROUTE or SPECIFIC LOCATION IDE	NTIFIER Robbins	S LANI			
Syosset.	a a area a gar	3 - 0 7 (10 1	STATE	ZIP CODE	TELEPHONE
COORDINATES: LATITUDE and LONGITUDE			TOWNSHI	P. RANGE, an Jassa U	d SECTION
			1	vussa O	(ig.
	OWNER/OPERATO	R IDENTIFICA	TION		
OWNER Sy Associates, Inc	· .	OPERATO	R		
OWNER ADDRESS .		OPERATO	R ADDRESS		
CITY		CITY			
STATE ZIP CODE TELEPHONE		STATE	ZIP (CODÉ	TELEPHONE
		1	l		(.)
TYPE OF OWNERSHIP	·	· ·			
× PRIVATE		1		ROPERATOR	R NOTIFICATION ON FILE
FEDERAL: Agency name STATE COUNTY	 .	•		C, UNCONTI	ROLLED WASTE SITE
MUNICIPAL OTHER: NOT SPECIFIED			RCRA 3001 DATE:		
	·		DATE	***	
SITE STATUS	YEARS OF	OPERATION		1	APPROXIMATE SIZE OF SITE
			-	1	ATTHORNWATE SIZE OF SITE
□ ACTIVE	BEGINNING YEAR: _	1951	· · ·	1 ,	
X INACTIVE	ENDING YEAR:	1984		'	10 acres
□ UNKNOWN	□ · UNKNOWN				
	SITE EVAL	UATION			
AGENCY / ORGANIZATION H2M GYOU	10				
INVESTIGATOR		-		·.	
CONTACT					·
ADDRESS					
TELEPHONE ()				·	
DATE					
7	liana Nobile			· · · · ·	

Liam Nobile
USEPA, Region II
26 Federal Plaza
Ny, Ny
Rm 13-100

DRAFI

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GENERAL INFORMATION (continued)

Site Sketch:

(Show all pertinent features; indicate sources and closest targets)

- primary aquifers Magothy Aguifer and Upper Glacial no private wells with 3-miles
- 8 pumphouses within 3-mile radius serving 14,000 people.
 - The water comes from the Magothy Aquifer which is the primary source of potable water on Long I sland.

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Site I e

GENERAL INFORMATION

Site Description and Operational History:

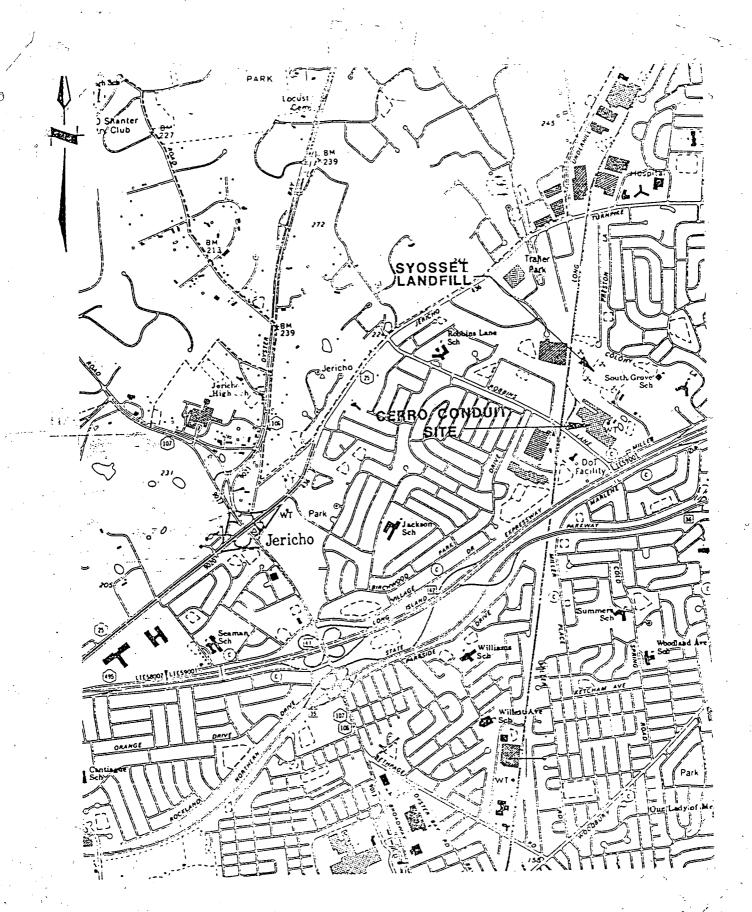
Cerro Wire + Cable Co. in Syosset is an inactive manufacturer of electrical conduit, hot rolled copper rods, and steel strip Some of the facility operations included caustic cleaning, acid pickling, vacid zincleyanide electroplating. Wastewater was treated with caustics and chlorine to destroy cyanide and/or ayante cleater plateny treated with lime and polymers to complex heavy metals. This wastewater was discharged to clarifiers to allow the precipitation of metal hydroxide sludge. This wastewater was then discharged to Cedar Creek Sewage Treatment Plant. The remaining sludge, determined by EPA to be nonhazardous, has since been removed from the site. A site investigation conducted has since been removed from the site. A site investigation conducted in 1979 revealed the presence of numerous spills and poorly in 1979 revealed the presence of numerous spills and poorly stored wastered.

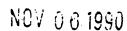
Probable Contaminants of Concern:

(Previous investigations; analytical data)

- wastewater/sludge from the use of acids and electroplating

- heavy metals, acids, cyanide







GENERAL INFORMATION (continued)

Source Descriptions:

- surface impoundment of studges (removed)
 unknown quantity of wastewaters and drums
- calculate waste characteristic on basis of 40 contaminated acres (assumption)

Waste Characteristics (WC) Calculations:

(See PA Table 1, page 5)

-40 acres contaminated soil



Site Name: Date:

Formula for
Assigning Source
WQ Values

Ibs ÷ 5,000

 $ft^{3} \div 67,500$ $yd^{3} \div 2,500$ $ft^{3} + 67.5$ $yd^{3} \div 2.5$ $drums \div 10$

gallons ÷ 50⊃

 $fr^3 \div 67,500$ $yd^3 \div 2.500$ $fr^3 \div 67.5$ $yd^3 \div 2.5$

 $ft^2 + 3,400$ acres + 0.078 $ft^2 + 13$ acres + 0.00025 $ft^2 + 34,000$ acres + 0.78 $ft^2 + 13$ acres + 0.00025 $ft^2 + 270$ acres + 0.0062

PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

7		SINGLE	SOURCE SITES (assigned WC	scores)		
ER	SOURCE TYPE	WC € 18	WC = 32	WC = 100		
COZST-TUEXT	N/A	≤100 lbs	> 100 to 10,000 lbs	> 10,000 lbs		
WASTEST REAK	N/A	≤500,000 lbs	> 500,000 to 50 million lbs	>50 million lbs		
	Landfill	≤6.75 million ft³ ≤250,000 yd³	>6.75 million ft ² to 675 million ft ³ >250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³		
V	Surface impoundment	≤6,750 ft³ ≤250 yd³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 yd ³	> 675,000 ft ³ > 25,000 yd ³		
0 L	Drums	≤1,000 drums	>1,000 to 100,000 drums	> 100,000 drums		
U M E	Tanks and non- drum containers	≤50,000 gailons	>50,000 to 5 million gallons	>5 million gallons		
•	Contaminated soil	≤6.75 million ft ³ ≤250,000 yd ³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³		
	Pile	≤6,750 ft³ ≤250 yd³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 yd ³	> 675,000 ft ³ > 25,000 yd ³		
	Landfill	≤340,000 ft² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 acres	>34 million ft² >780 acres		
	Surface impoundment	≤1,300 ft ² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ² >2.9 acres		
A R	Contaminated soil	≤3.4 million ft² ≤78 acres	>3.4 million to 340 million ft ² >78 to 7,800 acres	>340 million ft ² >7,800 acres		
Pile*		≤1,300 ft² , ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft² >2.9 acres		
	Land treatment	≤27,000 ft² ≤0.62 acres	> 27,000 to 2.7 million ft ² > 0.62 to 62 acres	> 2.7 million ft² > 62 acres		

1 ton	=	2,000	lbs	=	1	yd3	=	4	drums	**	200	gallons	
-------	---	-------	-----	---	---	-----	---	---	-------	----	-----	---------	--

^{*} Use area of land surface under pile, not surface area of pile.

PA Table 1b: WC Scores for Multiple Source Sites

	<u> </u>
WQ Total	WC Score
>0 to 100	18
>100 to 10,000	32
>10,000	100

Site N<u>am</u>e:

GROUND WATER PATHWAY GROUND WATER USE DESCRIPTION

Describe Ground V	Nater U	se Within	4-miles	of the	: Site:

(Provide generalized stratigraphy; information on aquifers, municipal, and or private wells)

- aguifers of concern Magothy Aguifer and Upper Glacial
- no private wells win 3 miles
- 8 pumphouses in 3 miles serving 14,000 people
- = qw flow from site is varying from southwest to northwest
- nearby gw plume from Syosset LF (Syosset LF being investigated depth to gw table 100ft. under RI/FS)
- Ground water comes from Magothy aquiter - The Magothy and Lloyd aguiler are separated by the Karitan Clay.

Show calculations of ground water drinking water populations:

- 14,000 people served by 8 pumphouses within 3-miles 4,667 people
- estimated <10,000 people in 3-74 mile range

GROUND WATER PATHWAY CRITERIA LIST

Site Name: Date:

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			GROUND WAT	TER P	ATH	NAY	
			SUSPECTED RELEASE				PRIMARY TARGETS
Y .		JEACO}C	•	¥ •	N 0	2€03F3C	
X			Are sources poorly contained?			Æ	Is any drinking-water well nearby?
- G ;		×	is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)?		Æ		is any nearby drinking water well closed?
		×	Is waste quantity particularly large?		P		Has foul-testing or foul-smelling water been reported by any nearby drinking-water users?
. 🗆	×	□.	Is precipitation heavy and infiltration rate high?		0	, X	Do any nearby wells have a large drawdown or high production rate?
	×	. []	Is the site located in an area of karst terrain?		S	×	Are drinking-water wells located between the site and other wells that are suspected to be exposed to hazardous substances?
	×		Is the subsurface highly permeable or conductive?	2	X,		Does any circumstantial evidence of ground water or drinking water contamination exist?
	Ξ,	X	Is drinking water drawn from a shallow aquifer?		×	. 🗖	Does any drinking-water well warrant sampling?
	X		Are suspected contaminants highly mobile in ground water?				Other criteria?
	×		Does any circumstantial evidence of ground water or drinking water contamination exist?		×		PRIMARY TARGET(S) IDENTIFIED?
	×		Other criteria? Sampling				
	X		SUSPECTED RELEASE?				
Sum	-on	ι-si omp	rationale for suspected release lattach an additional page ite monitoring wells analyzed goounds, and total organics halid contaminant detected in excessistent with background levels elds the limit and is assured	les.	for	TO	
Sumi	narize	the ri	rationale for Primary Targets (attach an additional page contaminants defected who examples a contaminants defected who	if nece	issary) (-∈	i: No	one: "toring

Pathway Characteristics	:		· · · · · · ·
Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?		Yes	No X
Is the site located in karst terrain? Depth to aquifer:		Yes	No X
Distance to the nearest drinking-water well:		<u> </u>	Known 1

Distance to the hearest orinking-water well:		un Known to	
	A	В.	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Referen
 SUSPECTED RELEASE: If you suspect a release to ground water (see page 7), assign a score of 550, and use only column A for this pathway. 	(56O)		
2. NO SUSPECTED RELEASE: If you do not suspect a release to ground water, and the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340. Use only column B for this pathway.		340	
LR =		340	-
TARGETS			* .
B. PRIMARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you suspect have been exposed to hazardous substances from the site (see Ground Water Pathway Criteria List, page 7).	•		
SECONDARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you do NOT suspect have been exposed to hazardous substances from the site, and assign the total population score from PA Table 2.			
Are any wells part of a blended system? Yes No $\frac{1}{2}$ No if yes, attach a page to show apportionment calculations.		5.50	
NEAREST WELL: If you have identified any Primary Targets for ground water, assign a score of 50; otherwise, assign the highest Nearest Well score from PA Table 2. If no drinking-water wells exist within 4 miles, assign a score of zero.	(\$0,20,18,8,5,3,2, ≠ 0)	20,189532 & 01	
WELLHEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of a designated WHPA is within ½ mile of the site; assign 5 if from ½ to 4 miles.	(20, 5, œ D)	i20, 5, er 0	
RESOURCES: A score of 5 is assigned.	⁽⁶⁾ .	5 5	
Τ=		545	
ASTE CHARACTERISTICS			
A. If you have identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is	[100 = 32]		

8.	Α.	If you have identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	(100 = 32)	
	В.	If you have NOT identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4.	[190,32, → 18]	(100.32. # 16) /
		wc =		18

GROUND	WATER	PATHWAY	SCORE:
--------	-------	---------	--------

Site Name: Date:

A TABLE 2: VALUES FOR SECOND, PY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

			Nearest	10, 1,545,60	ngil i w	Рорі	ulation Se	rved by W	alls Within	n Distance	Category	ran dan.	\$ 41.4.	······································
	Distance from Site	Population	Well (choose highest)	1 to 10	11 to 30	31 to 100	101 to 300	301 (o 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value
based on	0 to ¼ mile	1,168	20	1	2	5	16	52	163	521	1,633	5,214	16,325	163
approprie 1	>% to % mile	1,168	18	1	1	3	10	32	(101)	323	1,012	3,233	10,121	101
given data	>½ to 1 mile	<u>z,331</u>	9	1	1	. 2	5	17	(52)	167	522	1,668	5,224	<u>52 ·</u>
•	>1 to 2 miles	4.667	5	1	1	1	3	չ 9	29	94	294	939	2,938	94
! .	>2 to 3 miles	4,667	3	1	1	1	2	7	21	68	212	678	2,122	68
	>3 to 4 miles	<10,000	2	1	1	1	1	4	13	42	131	417	1,306	42

Nearest Well = 20

Score = 520

PA Table 2b: Karst Aquifers

	,	Nearest			Рор	ulation Se	rved by W	ells With	n Distance	Category			
Distance from Site	Population	Well (use 20 for karst):	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value
D'to ¼ mile		20	1.	2	5	16	52	163	521	1,633	5,214	16,325	
> ¼. to ½ mile	·	20	1	1.	3	10	32	101	323	1,012	3,233	10,121	·
>½ to 1 mile		20	1	1	3	8	26	82	261	816	2,607	8,162	
>1 to 2 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
>2 to 3 miles		20	1	1	3	8	26	: 82	261	816	2,607	8,162	
>3 to 4 miles		20	1 .	1	3	8	26	82	261	816	2,607	8,162	
N	earest Well =			•								Score =	· · · · · · · · · · · · · · · · · · ·

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Site ne

SURFACE WATER PATHWAY MIGRATION ROUTE SKETCH

Provide a Sketch of the Surface Water Migration Route										
	Pr	ovide	a	Sketch	of	the	Surface	Water	Migration	Route:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)

The nearest surface water is more than 2 miles away. Therefore, thus pathway does not need to be evaluated.

SURFACE WAR PATHWAY CRITERIA LIST



This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected to not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesiz suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothes whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of so conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than one depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the response for the target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make su that you assign a Likelihood of Release value of 550 for the pathway.

Is surface water nearby? Is any target nearby? If yes: Is weste quantity particularly large? Drinking-water intake Is the drainage area large? Drinking-water intake Fishery Sensitive environment Has an intake, fishery, or recreational area be closed? Is a runoff route well defined (e.g., ditch or channel leading to surface water? Is vegetation stressed along the probable runoff path? Does any target warrent sampling? If ,es: Drinking-water intake Fishery Does any target warrent sampling? If ,es: Drinking-water intake Fishery Does any target warrent sampling? If ,es: Drinking-water intake Fishery Does any target warrent sampling? If ,es: Drinking-water intake Fishery Description of waste into surface water been observed? PRIMARY INTAKE(S) IDENTIFIED? PRIMARY FISHERY IDENTIFIED?				SUSPECTED RELEASE	\top			DD1144.DV B4.D.C.
Is waste quantity particularly large? Drinking-water intake Drinking-wat	Y	20	€93K3		ř	N 0	Seaks€	PRIMARY TARGETS
Is waste quantity perticularly large? Drinking-water intake Is the drainage area large? Fishery Sensitive environment Are sources poorly contained or prone to runoff or flooding? Is a runoff route well defined (e.g., ditch or channel leading to surface water!)? Is vegetation stressed along the probable runoff path? Does any target warrant sampling? If ,es: Drinking-water intake Drinking-wa	_			Is surface water nearby?				Is any target nearby? If yes
Is the drainage area large? Fishery	=			is waste quantity particularly large?				
Are sources poorly contained or prone to runoff or flooding? Is a runoff route well defined (e.g., ditch or channel leading to surface water)? Is there any circumstantial evidence of surface water contamination at or downstream of a target? Does any target warrant sampling? If ,es:	-			is the drainage area large?				
Are sources poorly contained or prone to runoff or flooding? Sa runoff route well defined (e.g., ditch or channel leading to surface water)? Is vegetation stressed along the probable runoff path? Does any target warrent sampling? If ,es: Are suspected contaminants highly persistent in surface water? Drinking-water intake Are sediments/water unnaturally discolored? Sensitive environment Is wildlife unnaturally absent? PRIMARY INTAKE(S) IDENTIFIED? Is ground water discharge to surface water likely? PRIMARY SENSITIVE ENVIRONMENT(SIDENTIFIED? Other criterie? PRIMARY SENSITIVE ENVIRONMENT(SIDENTIFIED?	:		_ =	Is precipitation heavy or infiltration rate low?		,		
channel leading to surface water)? Is there any circumstantial evidence of surface water contamination at or downstream of a target? Does any target warrent sampling? If ,es: Drinking-water intake Fishery Is wildlife unnaturally absent? Has deposition of waste into surface water been observed? Is ground water discharge to surface water likely? Is there any circumstantial evidence of surface water likely? PRIMARY INTAKE(S) IDENTIFIED? PRIMARY FISHERY IDENTIFIED? PRIMARY SENSITIVE ENVIRONMENT(S IDENTIFIED?	•	Ģ		Are sources poorly contained or prone to runoff or flooding?				Has an intake, fishery, or recreational area he
Is vegetation stressed along the probable runoff path? Are suspected contaminants highly persistent in surface water? Are sediments/water unnaturally discolored? Drinking-water intake Fishery Is wildlife unnaturally absent? Has deposition of waste into surface water been observed? Is ground water discharge to surface water likely? Is there any circumstantial evidence of surface water contamination? Other criteria? PRIMARY INTAKE(S) IDENTIFIED? PRIMARY SENSITIVE ENVIRONMENT(S IDENTIFIED?				Is a runoff route well defined (e.g., ditch or channel leading to surface water)?		<u></u>		is there any circumstantial evidence of surface water contamination at or downstream of a
Are suspected contaminants highly persistent in surface water? Are sediments/water unnaturally discolored? Is wildlife unnaturally absent? Has deposition of waste into surface water been observed? Is ground water discharge to surface water likely? Is there any circumstantial evidence of surface water contamination? Other criteria? PRIMARY FISHERY IDENTIFIED? PRIMARY SENSITIVE ENVIRONMENT(SIDENTIFIED?		5	Ξ	Is vegetation stressed along the probable runoff path?				target?
Sensitive environment Sensitive environment				Are suspected contaminants highly persistent in surface water?			_	•
Sensitive environment Sens		Ξ	Ξ.	Are sediments/water unnaturally discolored? *				☐ Fishery
PRIMARY INTAKE(S) IDENTIFIED? Is ground water discharge to surface water likely? Is there any circumstantial evidence of surface water contamination? Other criteria? PRIMARY INTAKE(S) IDENTIFIED? PRIMARY FISHERY IDENTIFIED? PRIMARY SENSITIVE ENVIRONMENT(S IDENTIFIED?							•	☐ Sensitive environment
□ Is ground water discharge to surface water likely? □ Is there any circumstantial evidence of surface water contamination? □ Other criteria? □ Other criteria? □ Is ground water discharge to surface water likely? □ PRIMARY FISHERY IDENTIFIED? □ PRIMARY SENSITIVE ENVIRONMENT(SIDENTIFIED?				Has deposition of waste into surface water been observed?				
Is there any circumstantial evidence of surface water contamination? Other criteria? Dentified? PRIMARY SENSITIVE ENVIRONMENT(S IDENTIFIED?				is ground water discharge to surface water life.	Ľ			PRIMARY INTAKE(S) IDENTIFIED?
Other criteria? PRIMARY SENSITIVE ENVIRONMENT(S				*				PRIMARY FISHERY IDENTIFIED?
Other different				water contamination?				PRIMARY SENSITIVE ENVIRONMENT(S
SUSPECTED RELEASE?		_						
	_	<u> </u>		SUSPECTED RELEASE?				
				rioriale for suspected release (attach an additional page	if ne	cessar	γ):	
The lationale for suspected release (attach an additional page if necessary):			,					
marize the rationale for suspected release (attach an additional page if necessary):				The state of the s			٠	

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IKELIHOOD OF	SURFACE WATER PATHWAY RELEASE AND DRINKING WATER	THREAT SCORESHEET
	Pathway Characteristics	

٠	Do you suspect a release (see Surface Water Pathway Criteria List, postance to surface water: Flood Frequency: What is the downstream distance to the nearest drinking-water intak nearest fishery?milesnearest sensitive environment?		Noft ft yrs	
		Α	B	
LI	IKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1.	. SUSPECTED RELEASE: If you suspect a release to surface water (see page assign a score of 550, and use only column A for this pathway.	11),		
2.	. NO SUSPECTED RELEASE: If you do not suspect a release to surface water the distance to surface water is 2,500 feet or less, assign a score of 500; o wise, assign a score from the table below. Use only column B for this pathway.	ther-	(500,400,300 or 100)	
	Fioodplain Score			
	Site in annual or 10-yr floodplain 500			
	Site in 100-yr floodplain 400			
	Site in 500-yr floodplain 300			
	Site outside 500-yr floodplain 100	•	·	
Di	RINKING WATER THREAT TARGETS	LR = 15501	(500,400,300 ar 100)	
	by all drinking-water intakes within the 15-mile target distance limit. If there drinking-water intakes within the target distance limit, assign a total Targets of 5 at the bottom of this page (Resources only) and proceed to page 14. Intake Name	score .		
4.	PRIMARY TARGET POPULATION: If you suspect any drinking-water intake if above has been exposed to hazardous substances from the site (see Surface Pathway Criteria List, page 11), list the intake name(s) and calculate the fact score based on the number of people served.	Water or		
5.	SECONDARY TARGET POPULATION: Determine the Secondary Target Population score from PA Table 3 based on the populations using drinking-walfrom intakes that you do NOT suspect have been exposed to hazardous substances from the site. Are any intakes part of a blended system? Yes No If yes, attach a page to show apportionment calculations.	iter		
6.	NEAREST INTAKE: If you have identified any Primary Targets for the drinking water threat (Factor 4), assign a score of 50; otherwise, assign the Nearest II score from PA Table 3. If no drinking-water intake exists within the 15-mile distance limit, assign a score of zero.	ntake target	.1%	
7,	RESOURCES: A score of 5 is assigned.	(5) 5	5	¥
ent Series		1		

Sife Name: Date:

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water		Nearest		es est	F	opulation	Served by	Intakes l	Within Flo	w Catagor	γ			
Body Flow		Intake	1	31	101	301	1,001	3,001	10,001	30,001	100,001	300,001	1,000,001	
Characteristics (see PA Table 4)	Population	(choose	to	to	fo	to	lo	to	to	, to	to	to	to	Population
1288174 18018 47	ropulation	highest)	30	100	300	1,000	3,000	10,000	30,000	100,000	300,000	1,000,000	3,000,000	Value
<10 cfs 1		20	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	
10 to 100 cfs	· ·	2	1	. 1	2	5	16	-52	163	521	1,633	5,214	16,325	·
>100 to 1,000 cfs		1,	0	. 0	1	1	2	5	16	52	163	521	1,633	
>1,000 to 10,000 cfs		0	0	0	0	0 -	1	1,	2	5	16	52	163	· · · · · · · · · · · · · · · · · · ·
> 10,000 cfs or Great Lakes	· · · · · · · · · · · · · · · · · · ·	o :	. 0	0	0	0	. 0	0	1	1	2	5	16	
3-mile Mixing Zone		10	1	3	8	26	82	261	816	2,607	8,162	26,068	81,663	<u> </u>
Neare	st Intake =					•				•		;	Score =	•

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of St	rface Water Body	Dilution
Water Body Type	OR Flow Characteristics	Weight
minimal stream	flow less then 10 cfs	1
small to moderate stream	flow 10 to 100 cfs	0.1
moderate to large stream	flow greater than 100 to 1,000 cfs	N/A
, large stream to river	flow greater than 1,000 to 10,000 cfs	N/A
large river	flow greater than 10,000 cfs	N/A
3-mile mixing zone of quiet flowing streams or rivers	flow 10 cla or greater	N/A
coastal tidal water (harhors, sounds, bays, etc.), ocean, or Great Lakes	N/A	N/A

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Site One

SURFACE WATER PATHWAY (continued)
HUMAN FOOD CHAIN THREAT SCORESHEE

HOMAN FOOD CHAIN THREAT SO	CONESTIEL	A	В	
LIKELIHOOD OF RELEASE		Suspected Release	No Suspected Release	References
Enter the Surface Water Likelihood of Release score from page 12.	LR ≃	[550]	(500,400,300 or 100) e	

HUMAN FOOD CHAIN THREAT TARGETS

8.	Determine the water body types and flows (if applicable) for all fisheries within
	the 15-mile target distance limit. If there are no fisheries within the target
•	distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.

Fishery Name	Water Body Type	Flow
		cfs
		cfs

- PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate Factor 10. List the Primary Fisheries:
- 10. SECONDARY FISHERIES: If you have not identified any Primary Fisheries, assign a Secondary Fisheries score from the table below using the LOWEST flow at any fishery within the 15-mile target distance limit.

Lowest Flow	Secondary Fisheries Score	Z
< 10 cfs	210	
10 to 100 cfs	30	
> 100 cfs, coastal		
tidal waters, oceans,	12	
or Great Lakes		

	(300,210,30,12 or 0)	(210,30,12 ar 0)
w .	,	٠.
	(210,30,12 or D)	[210,30,12 ar Ji
1 }, s:	•	
d d	[300 er 0]	
fs		
fs fs		
fs		
fs		
_		

SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

		Α .	В
LIKELIHOOD OF RELEASE		Suspected Release	No Suspected Release
Enter the Surface Water Likelihood of Release score from page 1/2	LR =	1550)	(500,400,300 or 100)

Reference

11.	Determine the water body types and flows (if applicable) for all surface water
	sensitive environments within the 15-mile target distance limit (see PA Tables 4
	and 5). If there are no sensitive environments within the 15-mile target distance
	limit, assign a Targets score of 0 at the bottom of this page, and proceed to
	page 17.
	·

Environment Name	Water Body Type	Flow
		cfs

12. PRIMARY SENSITIVE ENVIRONMENTS: If you suspect any sensitive environment listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate Factor 13. List the Primary Sensitive Environments:

13. SECONDARY SENSITIVE ENVIRONMENTS:

A. For Secondary Sensitive Environments on surface water bodies with flows of 100 cfs or less, assign scores as follows, and do not evaluate part B of this factor:

Flow	Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total
cfs	x		
cfs	· ×		
cfs	×	=	· · · · · · · · · · · · · · · · · · ·
cfs	x	=	
cfs	<u>.</u>		

- B. If NO Secondary Sensitive Environments are located on surface water bodies with flows of 100 cfs or less, assign a score of 10.

[10 a 0 [10 = 01]

Sum =

Site Name: Date:

PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

Sensitive Environment	Assigned Value
Critical habitat for Federally designated endangered or threatened species	100
Marine Sanctuary	
National Park	•
Designated Federal Wilderness Area	
Ecologically important areas identified under the Coastal Zone Wilderness Act	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act	t
Critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lake	
National Monument	
National Seashore Recreation Area	
National Lakeshore Recreation Area	
Habitat known to be used by Federally designated or proposed endangered or threatened species	75
National Preserve	
National or State Wildlife Refuge	
Unit of Coestal Berrier Resources System	
ederal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wilderness Area	
Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay or estuary	
Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system	• .
Ferrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-aquatic foragers) for breeding	
National river reach designated as recreational	•
fabitat known to be used by State designated endangered or threatened species	50
labitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Barrier (partially developed)	•
ederally designated Scenic or Wild River	
state land designated for wildlife or game management	25
State designated Scenic or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for the protection/maintenance of aquatic life under the Clean Water Act	5
See PA Table 6 (Surface	ce Water Pathway
Netlands	
PA Table 9 (Ai	r Pathway)

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned Value
Less than 0.1 mile	0
0.1 to 1 mile	25
Greater than 1 to 2 miles	50
Greater than 2 to 3 miles	75
Greater than 3 to 4 miles	100
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500

SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	В
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	[100 ar 32]	
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4.	(100,32, or 18)	(1100.32, = 18)
WC =		

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score LR x T x WC / 82,500
Drinking Water				(subject to a reasonum of 100)
Human Food Chain	·			(Bubblett to 6 the semblet of 100)
Environmental				importino e melement el 601

SURFACE WATER PATHWAY SCORE (Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

SOIL EXPOSURE ATHWAY CRITERIA LIST

Site Name:

This chart provides guidelines to assist you in hypothesizing the presence of a resident population. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize resident populations. This chart will record your professional judgment in evaluating this factor.

Use the resident population section to guide you through evaluation of some site and source conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of nearby people you feel may be considered part of a resident population. Record the responses for the resident population target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question.

SOIL EXPOSURE PATHWAY				
SUSPECTED CONTAMINATION	RESIDENT POPULATION			
	Y N U C R R C C C C C C C C C C C C C C C C			
Surficial contamination is assumed.	Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contamination?			
	Are residences, schools, or day care facilities located on adjacent land previously owned or leased by the site owner/operator?			
	Is there an overland migration route that might spread hazardous substances near residences, schools, or day care facilities?			
	Are there any reports of adverse health effects from onsite or adjacent residents or students, exclusive of apparent drinking water or air contamination problems?			
	□ □ Does any offsite property warrant sampling?			
	Other criteria?			

	RESIDENT POPULATION IDENTIFIED?
Summarize the rationale for resident population (attach an additional p	page if necessary):
A resident populat	un 15 not identified
because no home	ton is not identified 5, schools, or day care ted within 200 feet
Cailitian Dia 1000	Led within 200 Park
Tucilities are wear	COC WITTING 200 HEET
Of the site	
or the attended	
A 100 mayor and a second and a	
· · · · · · · · · · · · · · · · · · ·	

NDV	0.3	1090

NOV 0/3,	SOIL EXPOSURE PATHWAY SCORESHEE	T		
	Pathway Characteristics Do any people live on or within 200 ft of areas of suspected contamination Do any people attend school or day care on or within 200 ft of areas of suspected contamination? Is the facility active? Yes No If yes, estimate the number of	, Yes		
		Α	В	
LIKELIHO	OD OF EXPOSURE		No Suspected Contamination	Refere
	CTED CONTAMINATION: Surficial contamination is assumed. e of 550 is assigned.	= 550		
RESIDEN	T POPULATION THREAT TARGETS			
or atter	NT POPULATION: Determine the number of people occupying residences adding school or day care on or within 200 feet of areas of suspected sination (see Soil Exposure Pathway Criteria List, page 18).			***************************************
	NT INDIVIDUAL: If you have identified any Resident Population (Factor 2) a score of 50; otherwise, assign a score of 0.	. 0		
	ERS: Assign a score from the following table based on the total number of s at the facility and nearby facilities with suspected contamination:			
	Number of Workers Scare Scare			•
	1 to 100 5	l.	No.	
	101 to 1,000 10			
L	> 1.000	<u> </u>		. ——
for each	STRIAL SENSITIVE ENVIRONMENTS: Assign a value from PA Table 7 in terrestrial sensitive environment that is located on an area of suspected ination:			
	Terrestrial Sensitive Environment Type Value			
	Sum	161		
6. RESOU	RCES: A score of 5 is assigned.	5		
		5		
	T	-		
WASTE C	CHARACTERISTICS	[100, 32, at 18]		•
7: Assign	the waste characteristics score calculated on page 4. WC	1		•
RESIDENT	POPULATION THREAT SCORE: LE x.T x WC 82,500	- Endpect to 6 m	9 mmum of 100)	
NEARBY I Assign a.sc	POPULATION THREAT SCORE: 550 x5 x18 ore of 2, 82500	2		
	OSURE PATHWAY SCORE: Sopulation Threat + Nearby Population Threat	Subspect to a m	() (i) (i) (ii)	···

Site Name: Date:

20

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PA TABLE 7: SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

Terrestrial Sensitive Environment	Assigned Value
Terrestrial critical habitat for Federally designated endangered or threatened species	
National Park	. 100
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitat known to be used by Federally designated or proposed threatened or endangered species	75
National Preserve (terrestrial)	, ,
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitat used by State designated endangered or threatened species	50
Terrestrial habitat used by species under review for Federally designated endangered or threatened status	
State lands designated for wildlife or game management	
State designated Natural Areas	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

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Distriction of L.

AIR PATHWAY CRITERIA LIST

Site Name: Date:

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release. This chart will record your professional judgment in evaluating this factor.

The "Suspected Release" section of the chart guides you through evaluation of some conditions to help hypothesize whether a release from the site is likely. For the Air Pathway, if a release is suspected, "Primary Targets" are any residents, workers, students, or sensitive environments within 1/2 mile of the site.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			AIR PA	THWAY
<u> </u>			SUSPECTED RELEASE	PRIMARY TARGETS
Y.	N 0	Dr.kco3c		
0		×	Have odors been reported?	If you suspect a release to air, evaluate all populations and sensitive environments within ½ mile (including those onsite) as Primary Targets.
		·X	Has a release of hazardous substances to the air been directly observed?	
		×	Are there any reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air?	
		×	Is there any circumstantial evidence of an air release?	
Ξ	X		Other criteria?	
	X		SUSPECTED RELEASE?	

Summarize the r	ationale for suspected release (attach an additional page if necessary):	
$C = \int$	t release to air is not suspected	\mathcal{A} .
2011	and ar our awarer samples and	1100
VIQI	contain any significant read	ings
tor	volatile organics.	
		i .

2

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AIR PATHWAY SCORESHEET

1990		
Pathway Characteristics		
Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual:	Ye	No √ 350 ft
	A	В

•	·	A	В	-
L	IKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Referen
1.	SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a score of 550, and use only column A for this pathway.	(550)		
2.	NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500, and use only column B for this pathway.		500	
_T/	LR =		500	
3.	PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air (see Air Pathway Criteria List, page 21).			
4.	SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, and assign the total population score from PA Table 8.	•	58	
5.	NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air pathway, assign a score of 50; otherwise, assign the highest Nearest Individual score from PA Table 8.	[50,20,7,2,1, ar 0]	20.7.2 1, = 01	
6.	PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wetland acreage values (F . Table 9) for environments subject to exposure from air hazardous substances (see Air Pathway Criteria List, page 21).			
	Sensitive Environment Type Value		ta	
	Sum =			· · · · ·
7.	SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.		0	
.8 .	RESOURCES: A score of 5 is assigned.	⁽⁵⁾	5	·.
	Τ=		84	*
W	ASTE CHARACTERISTICS			:
9.	A. If you have identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	(100 ≈ 32)		4 5
	B. If you have NOT identified any Primary Targets for the air pathway, assign the	[100,32, ar 18]	(100.12 • •	

AIR PATHWAY SCORE:

waste characteristics score calculated on page 4.

500 x 84 x 18 82,500 82,500

WC -

9-16

18

Site Name: · Date:

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

•		Nearest		T		F	Population	Within Dis	tance Cat	egory		,4		1.0	
Distance from Site	Population	Individual (choose highest)	1 fo 10	11 10 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,001 to 3,000,000	Population Value
Onsite		20	1	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	
>0 to ¼ mile	1,168	20	1	1	1	4	13	41	130	408	1,303	4,081	13,034	40,811	41
> ¼ to ½ mile	7,168	2	0	0	1	1.	3	9	28	88	282	882	2,815	8,815	9
> ½ to 1 mile	2331	1	O	0	0	1	1	3	8	26	83	261	834	2,612	3
>1 to 2 miles	1617	0	0	0	. 0	0	1	1	3	8	27	83	266	833	3
> 2 to 3 miles	4,667 <10,000	°	0	0	Ó	0	1	1	0	4	12	. 38	120	376	
>3 to 4 miles		0	0	0	0	0	. 0	1	①		7	23	73	229	
Nearest I	ndividual =	20				•	•		•	• .	·			core =	58

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Wetherd Arms	signed Value
Less then 1 acre	0
1 to 50 acres	25
Greater than 50 to 100 acres	75
Greater than 100 to 150 acres	125
Greater than 150 to 200 acres	175
Greater than 200 to 300 acres	250
Greater than 300 to 400 acres	350
Greater than 400 to 500 acres	450
Greater than 500 acres	500

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

Olstença	Distance Weight	Senskive Environment Type and Velue (Irom PA Table 5 or 9)	Product
Onsite	0.10	x	
		x	·····
		×	
0-1/4 mi	0.025	×	
		x	
		x	
1/4-1/2mi	0.0054	x	
		X	
1	<u> </u>	×	

N

NO

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Site Name:
Date:

SITE SCORE CALCULATION

	S	S²
GROUND WATER PATHWAY SCORE (Sg.,):	40.06	1604.80
SURFACE WATER PATHWAY SCORE (S,w):	0	0 .
SOIL EXPOSURE PATHWAY SCORE (S,,):	2.6	6.76.
AIR PATHWAY SCORE (S,):	9.16	83.97
SITE SCORE:	$\sqrt{\frac{S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_a^2}{4}} =$	20.59

CI	11	١.	M	Λ	v

RECOMMENDATION

	The Abbasian is bright and a 1970	-
	Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water?	
	A. If yes, identify the wells recommended for sampling during the SI.	
•	B. If yes, how many people are served by these threatened wells?	
	Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site?	
	A. Drinking water intake	
	B. Fishery	
	C. Sensitive environment: wetland, critical habitat, others	
	D. If yes, identify the targets recommended for sampling during the SI.	
	Do people reside or attend school or day care on or within 200 ft of any area of suspected contamination?	-
	Are there public health concerns at this site that are not addressed by PA scoring considerations? If yes, explain:	